

## ■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Battery low protections
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 45KHz
- 2 years warranty

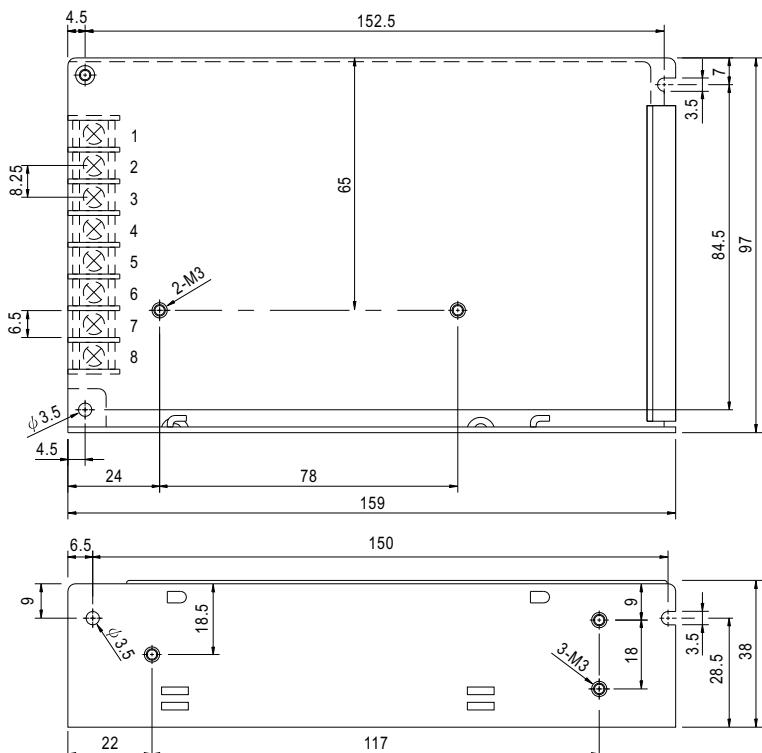
## SPECIFICATION



MODEL	AD-55A		AD-55B				
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH1			
	DC VOLTAGE	13.8V	13.4V	27.6V			
	RATED CURRENT	3.5A	0.23A	1.8A			
	CURRENT RANGE	0 ~ 4A	-----	0 ~ 2A			
	RATED POWER	51.38W		53.92W			
	RIPPLE & NOISE (max.) Note.2	100mVp-p	-----	100mVp-p			
	VOLTAGE ADJ. RANGE	CH1: 12 ~ 14.5V		CH1: 24 ~ 29V			
	VOLTAGE TOLERANCE Note.3	±1.0%	-----	±1.0%			
	LINE REGULATION	±0.5%	-----	±0.5%			
	LOAD REGULATION	±0.5%	-----	±0.5%			
SETUP, RISE TIME							
800ms, 50ms/230VAC 1600ms, 50ms/115VAC at full load							
HOLD UP TIME (Typ.)							
80ms/230VAC 16ms/115VAC at full load							
INPUT	VOLTAGE RANGE	88 ~ 264VAC	124 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	71%		74%			
	AC CURRENT (Typ.)	1.6A/115VAC	1A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC		40A/230VAC			
	LEAKAGE CURRENT	<1mA / 240VAC					
PROTECTION	OVERLOAD	105 ~ 150% rated output power					
		Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	CH1:14.49 ~ 18.63V		CH1:28.98 ~ 37.26V			
FUNCTION	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
	AC fail CN1 PIN2						
	DC ALARM SIGNAL(OPTIONAL)	Battery low under charge voltage 82.5%±2% CN1 PIN1					
Normal 0.8V max. Abnormal 5V±0.5V							
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to output load derating curve)					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C) on CH1 output					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC/ 25°C / 70% RH					
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B					
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3					
EMS IMMUNITY							
Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A							
OTHERS	MTBF	304.3K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	159*97*38mm (L*W*H)					
	PACKING	0.5Kg; 24pcs/12.6Kg/0.75CUFT					
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.						

## ■ Mechanical Specification

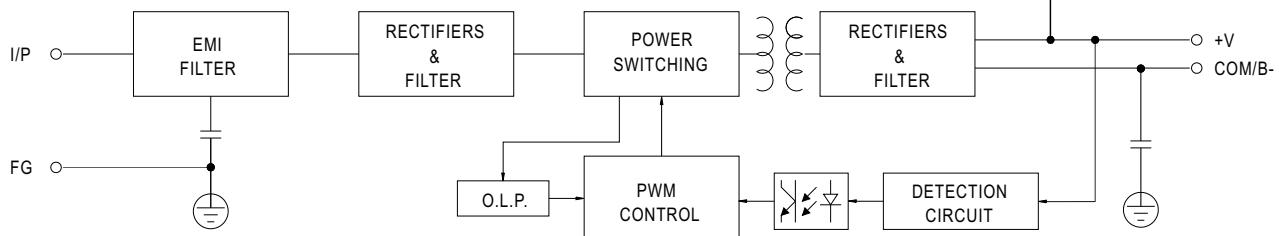
Case No. 901 Unit:mm



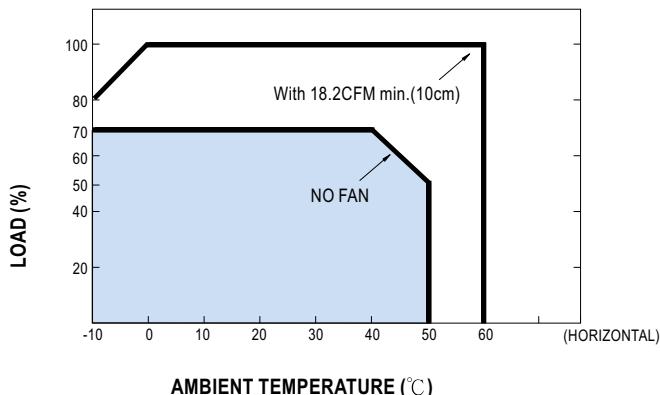
## Terminal Pin No. Assignment :

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5	DC OUTPUT +V
2	AC/N	6	BAT. +
3	FG $\pm$	7	BAT.-/COM
4	DC OUTPUT COM	8	NC

## ■ Block Diagram



## ■ Derating Curve



## ■ Static Characteristics (A)

